

METHOD FOR DEFECT MANAGEMENT OF AN OPTICAL STORAGE MEDIUM WITH A SORTING PROCESS

Abstract

A method for recording a plurality of data sets onto an optical storage medium by utilizing a temporary storage device in an optical storage system. The optical storage medium contains a plurality of data blocks and a plurality of spare data blocks. Each data block is utilized for recording a data set, and each spare data block is utilized for substituting for a defective data block to record the corresponding data set. The method comprises: storing a plurality of data sets corresponding to a plurality of defective data blocks in the memory into the temporary storage device; re-arranging a sequence of the plurality of data sets corresponding to the plurality of defective data blocks in the temporary storage device according to a sorting process; and recording the re-arranged data sets in the temporary storage device into the spare data blocks of the optical storage medium.